

## EP3000 Pro Series Low Frequency Power Inverter

### Feature:

- Rated power 1kw to 6kw
- Pure sine wave output
- 3 times surge power
- Wide frequency 40Hz-80Hz
- Overload and short circuit protection
- Built-in pure copper UI transformer
- Smart battery charger designed for optimized battery performance
- Cold start function
- Support RS232 monitoring function with free CD
- Support BTS and AGS function
- DIP Switch offer customized performance
- Remote Control Panel (optional)
- Solar priority function
- Compatible to generator

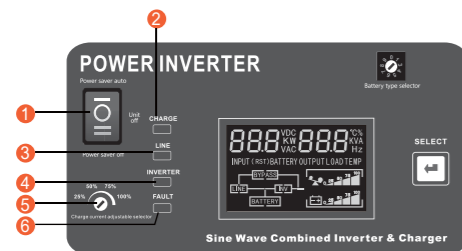
### Back Panel



### Introduction:

EP3000 Pro series is a very economical pure sine wave inverter with AC charger from 35A to 70A .Solar /AC priority configurable . When solar priority , When solar charging current is lower then utility, the AC will supply to charge batteries, to optimize charging the. With pure copper transformer inside, which let it be suitable for all kinds of home appliance.

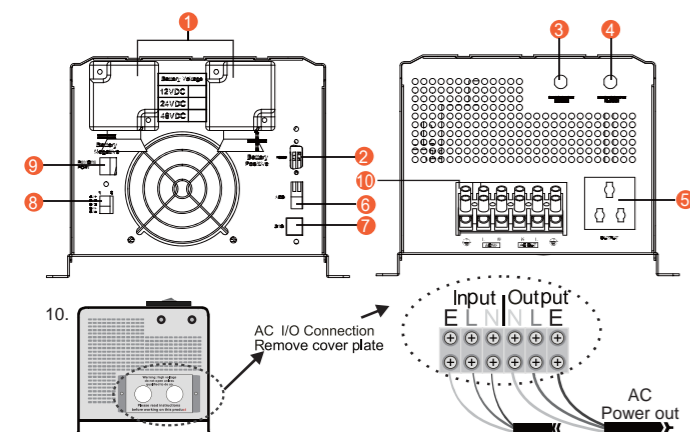
### LCD/LED Display Information



1. Switch	Power saver auto: Power on with saver mode(power saver ≤25W)
	Unit Off: Power totally off(If there is AC power,inverter have charger function)
	Power saver off: Power on without saver mode

- |           |                     |  |                    |
|-----------|---------------------|--|--------------------|
| 2. CHARGE | AC Charge Indicator | 4. INVERTER  | Inverter Indicator |
| 3. LINE   | AC power Indicator  | 5. FAULT   | Check inverter     |
|           |                     | 6. Charge current adjustable:25%,50%,75%,100%.(Optional) |                    |

### Solar System Connection



- |                             |                         |
|-----------------------------|-------------------------|
| 1. Battery input            | 6. AGS                  |
| 2. RS232 communication port | 7. BTS                  |
| 3. Charger Input Protect    | 8. DIP Switch (SW1-SW5) |
| 4. Inverter Output Protect  | 9. Remote control       |
| 5. Output 10A MAX           |                         |



### Specification

MODEL		EP30-1KW PRO		EP30-1.5KW PRO		EP30-2KW PRO		EP30-3KW PRO		EP30-4KW PRO		EP30-5KW PRO		EP30-6KW PRO			
<b>Nominal Battery System Voltage</b>		12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	48VDC	24VDC	48VDC	24VDC	48VDC	24VDC		
<b>INVERTER OUTPUT</b>	Rated Power	1.0KW		1.5KW		2KW		3KW		4KW		5KW		6KW			
	Surge Rating (20ms)	3.0KW		4.5KW		6.0KW		9.0KW		12KW		15KVA		18KW			
	Capable Of Starting Electric Motor	1HP		1HP		1HP		2HP		2HP		3HP		3HP			
	Waveform	Pure sine wave/ same as input (bypass mode)															
	Nominal Output Voltage RMS	100V/110V/120VAC						220V/230V/240VAC(±10% RMS)						220V/230V/240VAC(±10% RMS)			
	Output Frequency	50Hz/60Hz±0.3 Hz															
	Inverter Efficiency(Peak)	>88%															
Line Mode Efficiency	>95%																
Power Factor	1.0																
Typical Transfer Time	10ms(max)																
<b>AC INPUT</b>	Voltage	230VAC															
	Selectable Voltage Range	96~132VAC 155~280VAC(For Personal Computers)															
	Frequency Range	50Hz/60Hz (Auto sensing) 40~80Hz															
<b>BATTERY</b>	Minimum Start Voltage	10.0VDC /10.5VDC for12VDC mode (*2 for 24VDC, *4 for 48VDC)															
	Low Battery Alarm	10.5VDC ±0.3V for12VDC mode (*2 for 24VDC, *4 for 48VDC)															
	Low Battery Cut off	10.0VDC ±0.3V for12VDC mode (*2 for 24VDC, *4 for 48VDC)															
	High Voltage Alarm	16.0VDC ±0.3V for12VDC mode (*2 for 24VDC, *4 for 48VDC)															
	High Battery Voltage Recover	15.5VDC ±0.3V for12VDC mode V															
	Idle Consumption-Search Mode	<25W when power saver on															
<b>CHARGER</b>	Output Voltage	Depends on battery type															
	Charger AC Input Breaker Rating	10A		30A		30A		30A		30A		40A		40A			
	Overcharge Protection S.D.	15.7VDC for 12VDC mode (*2 for 24VDC mode, *4 for 48VDC mode)															
	Maximum Charge Current	35A	20A	45A	25A	65A	35A	75A	45A	30A	65A	35A	70A	40A	75A	50A	
<b>BYPASS &amp; PROTECTION</b>	Input Voltage Waveform	Sine wave (grid or generator)															
	Nominal Input Frequency	50Hz or 60Hz															
	Overload Protection (SMPS Load)	Circuit breaker															
	Output Short Circuit Protection	Circuit breaker															
	Bypass Breaker Rating	10A		30A		30A		30A		30A		40A		40A			
Max Bypass Current	30Amp																
<b>MECHANICAL SPECIFICATIONS</b>	Mounting	Wall Mount															
	Dimensions (W*H*D)	426*206*178 mm										601*206*178mm					
	Net Weight (Solar CHG) kg	16.5	17	21.1	20	26	24.5	24.8	38.2	35.8	45.2	45	45.2	45			
	Shipping Dimensions(W*H*D)	570*335*300mm										750*335*300mm					
	Shipping Weight (Solar CHG) kg	19.3	20	24.1	22.8	29.1	27.5	27.5	42.3	40	49.5	49.3	49.5	49.3			
<b>OTHER</b>	Operation Temperature Range	0°C to 40°C															
	Storage Temperature	-15°C to 60°C															
	Audible Noise	60dB MAX															
	Display	LED+LCD															
	Standard Warranty	1 year															

\* Product specifications are subject to change without further notice.

### Approximate Back-up Time Table

Power Rate(w)	backup time(H) @1*100Ah	backup time(H) @2*100Ah	backup time(H) @4*100Ah	backup time(H) @4*200Ah	backup time(H) @8*200Ah
1000	0.4806	1.602	3.50304	7.6896	
2000	0.2136	0.4806	1.602	3.50304	7.6896
3000	0.1068	0.2848	0.8544	2.136	4.8416
4000		0.2136	0.4806	1.602	3.50304
5000		0.12816	0.34176	1.19616	2.73408
6000		0.1068	0.2848	0.8544	2.136